



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 21 82 62 76

Classification of the application (IPC):
F16L 37/084, F16B 21/08

Technical fields searched (IPC):
F16B, F16L

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	US 5934709 A (MORRISON LEIGH WAYNE [AU]) 10 August 1999 (1999-08-10) * figures *	1, 2, 16-18
X A	WO 2005071304 A1 (OYSTERTEC PLC [GB]; COLEGATE RICHARD LEE [GB]) 04 August 2005 (2005-08-04) * figures *	1-4, 16, 17 5-15
X	DE 2030859 A1 (METALLVERKEN ESSEM PLAST AB) 07 January 1971 (1971-01-07) * figures *	1-4, 16, 17
X A	US 3439944 A (LEUTENEGGER BERNHARD) 22 April 1969 (1969-04-22) * figures *	1-4, 16-18 5
X	US 4830408 A (REIMERT LARRY E [US]) 16 May 1989 (1989-05-16) * figures *	1, 16

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 08 May 2024	Examiner Pöll, Andreas
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CATEGORY OF CITED DOCUMENTS

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|---|--|
| X: particularly relevant if taken alone | P: intermediate document |
| Y: particularly relevant if combined with another document of the same category | T: theory or principle underlying the invention |
| A: technological background | E: earlier patent document, but published on, or after the filing date |
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ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 08-05-2024
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			US 4830408 A	16-05-1989